



Billing Code 4410-09-P

DEPARTMENT OF JUSTICE
Drug Enforcement Administration
Manufacturer of Controlled Substances
Notice of Application
Cayman Chemical Company

Pursuant to 21 CFR 1301.33(a), this is notice that on June 27, 2013, Cayman Chemical Company, 1180 East Ellsworth Road, Ann Arbor, Michigan 48108, made application by renewal to the Drug Enforcement Administration (DEA) to be registered as a bulk manufacturer of the following basic classes of controlled substances:

Drug	Schedule
Cathinone (1235)	I
Methcathinone (1237)	I
4-Methyl-N-methylcathinone (1248)	I
N-Ethylamphetamine (1475)	I
N,N-Dimethylamphetamine (1480)	I
Aminorex (1585)	I
4-Methylaminorex (cis isomer) (1590)	I
Gamma Hydroxybutyric Acid (2010)	I
JWH-250 (6250)	I
SR-18 also known as RCS-8 (7008)	I

Drug	Schedule
XLR11 (7011)	I
JWH-019 (7019)	I
AKB48 (7048)	I
JWH-081 (7081)	I
SR-19 also known as RCS-4 (7104)	I
1-Pentyl-3-(1-naphthoyl)indole (7118)	I
JWH-122 (7122)	I
UR-144 (7144)	I
1-Butyl-3-(1-naphthoyl)indole (7173)	I
1-[2-(4-Morpholinyl)ethyl]-3-(1-naphthoyl) indole (7200)	I
AM-2201 (7201)	I
JWH-203 (7203)	I
Alpha-ethyltryptamine (7249)	I
5-(1,1-Dimethylheptyl)-2-[(1R,3S)- 3-hydroxycyclohexyl]-phenol (7297)	I
5-(1,1-Dimethyloctyl)-2-[(1R,3S)- 3-hydroxycyclohexyl]-phenol (7298)	I
Lysergic acid diethylamide (7315)	I
2,5-Dimethoxy-4-(n)-propylthiophenethylamine (7348)	I
Marihuana (7360)	I
Tetrahydrocannabinols (7370)	I

Drug	Schedule
Mescaline (7381)	I
2C-T-2 (7385)	I
3,4,5-Trimethoxyamphetamine (7390)	I
4-Bromo-2,5-dimethoxyamphetamine (7391)	I
4-Bromo-2,5-dimethoxyphenethylamine (7392)	I
4-Methyl-2,5-dimethoxyamphetamine (7395)	I
2,5-Dimethoxyamphetamine (7396)	I
JWH-398 (7398)	I
2,5-Dimethoxy-4-ethylamphetamine (7399)	I
3,4-Methylenedioxyamphetamine (7400)	I
5-Methoxy-3,4-methylenedioxyamphetamine (7401)	I
N-Hydroxy-3,4-methylenedioxyamphetamine (7402)	I
3,4-Methylenedioxy-N-ethylamphetamine (7404)	I
3,4-Methylenedioxymethamphetamine (7405)	I
4-Methoxyamphetamine (7411)	I
5-Methoxy-N,N-dimethyltryptamine (7431)	I
Alpha-methyltryptamine (7432)	I
Bufotenine (7433)	I
Diethyltryptamine (7434)	I
Dimethyltryptamine (7435)	I
Psilocybin (7437)	I
Psilocyn (7438)	I
5-Methoxy-N,N-diisopropyltryptamine (7439)	I

Drug	Schedule
N-Ethyl-1-phenylcyclohexylamine (7455)	I
N-Benzylpiperazine (7493)	I
2C-D (7508)	I
2C-E (7509)	I
2C-H (7517)	I
2C-I (7518)	I
2C-C (7519)	I
2C-N (7521)	I
2C-P (7524)	I
2C-T-4 (7532)	I
MDPV (7535)	I
Methylone (7540)	I
AM-694 (7694)	I
Desmorphine (9055)	I
Dihydromorphine (9145)	I
Heroin (9200)	I
Morphine-N-oxide (9307)	I
Normorphine (9313)	I
Tilidine (9750)	I
Amphetamine (1100)	II
Methamphetamine (1105)	II
Lisdexamfetamine (1205)	II
Pentobarbital (2270)	II

Drug	Schedule
Phencyclidine (7471)	II
Phenylacetone (8501)	II
Codeine (9050)	II
Dihydrocodeine (9120)	II
Oxycodone (9143)	II
Hydromorphone (9150)	II
Hydrocodone (9193)	II
Levomethorphan (9210)	II
Meperidine (9230)	II
Meperidine intermediate-B (9233)	II
Methadone (9250)	II
Dextrpropoxyphene, bulk (non-dosage forms) (9273)	II
Morphine (9300)	II
Thebaine (9333)	II
Oxymorphone (9652)	II
Sufentanil (9740)	II
Fentanyl (9801)	II

The company plans to manufacture reference standards for distribution to their research and forensics customers.

In reference to drug code 7360 (Marihuana), the company plans to bulk manufacture cannabidiol as a

synthetic intermediate. This controlled substance will be further synthesized to bulk manufacture a synthetic tetrahydrocannabinol (7370). No other activity for this drug code is authorized for this registration.

Any other such applicant, and any person who is presently registered with DEA to manufacture such substances, may file comments or objections to the issuance of the proposed registration pursuant to 21 CFR 1301.33(a).

Any such written comments or objections should be addressed, in quintuplicate, to the Drug Enforcement Administration, Office of Diversion Control, Federal Register Representative (ODW), 8701 Morrisette Drive, Springfield, Virginia 22152; and must be filed no later than [INSERT DATE 60 DAYS FROM DATE OF PUBLICATION].

Joseph T. Rannazzisi
Deputy Assistant Administrator
Office of Diversion Control
Drug Enforcement Administration

DATED: SIGNED December 31, 2013

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